**Install Packages Using ELPA, MELPA**

Add this to your emacs init:

(when (>= emacs-major-version 24)

(require 'package)

(add-to-list

'package-archives

'("melpa" . "http://melpa.org/packages/")

t)

(package-initialize))

restart emacs.

1. Now, call list-packages.
2. Find the package you want, move cursor to the line press Enter ↵.
3. press Tab ↹ to move cursor to the “Install” button then press Enter ↵.
4. Then, you can start to use the package.

## Listing Available Packages

Call list-packages.

## Install Packages

This list is shown in package-menu-mode. In this mode, here's the most useful keys:

* 【Enter ↵】 (package-menu-describe-package) → Describe the package under cursor.
* 【i】 (package-menu-mark-install) → mark for installation.
* 【u】 (package-menu-mark-unmark) → unmark.
* 【d】 (package-menu-mark-delete) → mark for deletion (removal of a installed package).
* 【x】 (package-menu-execute) → for “execute” (start install/uninstall of marked items).
* 【r】 (package-menu-refresh) → refresh the list from server.

(For complete list of keys, call describe-mode 【Ctrl+h m】)

For example, i want to install the clojure-mode. I type i to mark it, x to run install. Then, i got the following files in my dir, all automatically byte-compiled and loaded.

~/.emacs.d/elpa/clojure-mode-1.7.1:

clojure-mode-autoloads.el

clojure-mode-pkg.el

clojure-mode-pkg.elc

clojure-mode.el

clojure-mode.elc

and now i can call clojure-mode, and it works right there! (no need to restart, but for some packages, you may need to turn it on or restart emacs.)

## Upgrade Packages

To upgrade packages, just press 【U x】.

* package-menu-mark-upgrades 【U】 → For any package that has a new version, the installed one will be marked “D” (for delete), and new one will be marked “I” (to install).
* package-menu-execute 【x】 → run the marked commands on packages.

**WARNING**: package upgrade is not reliable. It is better to upgrade one package at a time. First delete the package, then install the latest.

## Installed Packages Location

New packages are installed at ~/.emacs.d/elpa/.

If you want to remove all external packages, you can delete this entire directory and restart emacs. It is harmless to do so.

## Packages Repositories

The source of the packages are from package servers. There are several.

* <http://elpa.gnu.org/> Default. Official GNU Emacs package repository. This repository contains the minimal set, and each package is signed by Free Software Foundation.
* <http://marmalade-repo.org/> Marmalade. More extensive number of packages.
* <http://melpa.org/> MELPA. As of 2016-01-16, MELPA has most packages, and updated daily.

To add it, put the following in your emacs init file:

(when (>= emacs-major-version 24)

(require 'package)

(add-to-list

'package-archives

'("melpa" . "http://melpa.org/packages/")

t)

(package-initialize))

Note: the emacs package system, called ELPA (aka package.el), is started by [Tom Tromey](https://plus.google.com/118038589019918324505/posts). Marmalade is started by[Nathan Weizenbaum](https://plus.google.com/116776358422263344346/posts). MELPA is started by [Donald Ephraim Curtis](http://milkbox.net/) (aka milkypostman) Thank you guys.

## Helpful Commands and Variables

package-enable-at-startup. By default, this is t (true).

package-load-list. This determines which packages should be loaded at start-up.

Call describe-function or describe-variable for details.

## How to Install Emacs Package Manually

[How to Install Emacs Package Manually](http://ergoemacs.org/emacs/emacs_installing_packages.html)

* [Emacs: Customize System Tutorial](http://ergoemacs.org/emacs/emacs_custom_system.html)
* [Emacs: How to Associate a File with a Major Mode?](http://ergoemacs.org/emacs/emacs_auto-activate_a_major-mode.html)
* [Organize Emacs Init File in 5 Minutes](http://ergoemacs.org/emacs/organize_your_dot_emacs.html)
* [Emacs: Best Undo/Redo Mode](http://ergoemacs.org/emacs/emacs_best_redo_mode.html)